

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

TestAmerica Job ID: 490-27925-1 Client Project/Site: Everett Terminal

For:

Exxon Global Remed. Grp 52 Beacham Street Everett, Massachusetts 02149

Attn: Mr. Ernest E Haynes

Hais a daze

Authorized for release by: 6/14/2013 9:27:29 AM

Gail Lage, Senior Project Manager gail.lage@testamericainc.com

·····LINKS ······

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27925-1

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Sample Summary

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27925-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-27925-1	Outfall 01 A-TSS - 1	Wastewater	06/03/13 09:25	06/04/13 08:15
490-27925-4	Outfall 01 A	Wastewater	06/03/13 09:25	06/04/13 08:15

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Case Narrative

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27925-1

Job ID: 490-27925-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-27925-1

Receipt

The samples were received on 6/4/2013~8:15~AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was $0.7^{\circ}~C$.

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Definitions/Glossary

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27925-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit

Glossary

RER

RPD

TEF

TEQ

RL

Relative error ratio

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Abbreviation	These commonly used abbreviations may or may not be present in this report.
п	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control

Client Sample Results

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

Total Suspended Solids

TestAmerica Job ID: 490-27925-1

06/04/13 13:16

Client Sample ID: Outfall 01 A-TSS - 1

Lab Sample ID: 490-27925-1

Date Collected: 06/03/13 09:25

Date Received: 06/04/13 08:15

Matrix: Wastewater

– General Chemistry

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

2.50

1.50 mg/L

6.25

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Client Sample Results

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27925-1

Lab Sample ID: 490-27925-4

Matrix: Wastewater

Client Sample ID: Outfall 01 A Date Collected: 06/03/13 09:25

Date Received: 06/04/13 08:15
General Chemistry

	General Chemistry									
İ	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Oil & Grease (HEM)	<1.37		3.92	1.37	mg/L		06/06/13 11:19	06/06/13 11:19	1

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Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27925-1

Lab Sample ID: MB 490-84406/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 84408** Prep Batch: 84406

мв мв

Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed 4.00 06/06/13 11:19 06/06/13 11:19 Oil & Grease (HEM) <1.40 1.40 mg/L

Lab Sample ID: LCS 490-84406/2-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 84408** Prep Batch: 84406 LCS LCS Spike

Analyte Added Result Qualifier Unit %Rec Limits Oil & Grease (HEM) 41.7 36.77 mg/L 88 78 - 114

Lab Sample ID: LCSD 490-84406/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 84408 Prep Batch: 84406 Spike LCSD LCSD %Rec. RPD Added Result Qualifier Unit D %Rec Limits **RPD** Limit Oil & Grease (HEM) 41.7 40.42 mg/L

Lab Sample ID: 490-27959-D-1-A MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 84408

Prep Batch: 84406 Sample Sample Spike MS MS %Rec.

Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Oil & Grease (HEM) <1.56 49.4 40 49 mg/L 82 78 _ 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-83839/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 83839

MB MB RL Result Qualifier MDL Unit Prepared Dil Fac Analyte Analyzed Total Suspended Solids <0.600 1.00 0.600 mg/L 06/04/13 13:16

Lab Sample ID: LCS 490-83839/2 **Client Sample ID: Lab Control Sample Matrix: Water**

Analysis Batch: 83839

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits **Total Suspended Solids** 101 100.2 mg/L 100 90 - 110

Lab Sample ID: 490-27927-J-1 DU **Client Sample ID: Duplicate** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 83839								
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Total Suspended Solids	7.60		5.700	F	mg/L		 29	20

6/14/2013

Prep Type: Total/NA

Prep Type: Total/NA

QC Association Summary

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27925-1

General Chemistry

Analysis Batch: 83839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27925-1	Outfall 01 A-TSS - 1	Total/NA	Wastewater	SM 2540D	
490-27927-J-1 DU	Duplicate	Total/NA	Water	SM 2540D	
LCS 490-83839/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 490-83839/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 84406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27925-4	Outfall 01 A	Total/NA	Wastewater	1664A	
490-27959-D-1-A MS	Matrix Spike	Total/NA	Water	1664A	
LCS 490-84406/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 490-84406/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 490-84406/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 84408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27925-4	Outfall 01 A	Total/NA	Wastewater	1664A	84406
490-27959-D-1-A MS	Matrix Spike	Total/NA	Water	1664A	84406
LCS 490-84406/2-A	Lab Control Sample	Total/NA	Water	1664A	84406
LCSD 490-84406/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	84406
MB 490-84406/1-A	Method Blank	Total/NA	Water	1664A	84406

Lab Chronicle

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

Date Collected: 06/03/13 09:25

Date Received: 06/04/13 08:15

Client Sample ID: Outfall 01 A

Prep

1664A

Date Collected: 06/03/13 09:25

Date Received: 06/04/13 08:15

Client Sample ID: Outfall 01 A-TSS - 1

TestAmerica Job ID: 490-27925-1

Lab Sample ID: 490-27925-1

TAL NSH

Matrix: Wastewater

Batch Dilution Batch Batch Prepared Method Factor Number Prep Type Type Run or Analyzed Analyst Lab Total/NA Analysis SM 2540D 83839 06/04/13 13:16 DM TAL NSH

Lab Sample ID: 490-27925-4

Matrix: Wastewater

Batch Batch Dilution Batch Prepared Method Run Factor Prep Type Туре Number or Analyzed Analyst Lab Total/NA TAL NSH Analysis 1664A 84408 06/06/13 11:19 BD

84406

06/06/13 11:19

BD

Laboratory References:

Total/NA

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

TestAmerica Job ID: 490-27925-1

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	TAL NSH
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH

Protocol References:

1664A = EPA-821-98-002

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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TestAmerica Job ID: 490-27925-1

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Ilinois	NELAP	5	200010	12-09-13
owa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
ouisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Гехаѕ	NELAP	6	T104704077-09-TX	08-31-13
JSDA	Federal		S-48469	11-02-13
Jtah	NELAP	8	TAN	06-30-13
/irginia	NELAP	3	460152	06-14-13
Vashington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Visconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

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TestAmerica Nashville

 $^{^{\}star}$ Expired certification is currently pending renewal and is considered valid.

COOLER RECEIPT FORM

Cooler Received/Opened On: 06/04/13 @ 0815 Tr

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

Tracking #(last 4 digits, FedEx)	
Courier: Fed-ex IR Gun: 17060357	
1. Temperature of rep. sample or temp blank when opened:	
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen?	YES NONA
4. Were custody seals on outside of cooler?	YES. NONA
If yes, how many and where:	
5. Were the seals intact, signed, and dated correctly?	YESNONA
6. Were custody papers inside cooler?	(YES)NONA
I certify that I opened the cooler and answered questions 1-6 (intial)	70
7. Were custody seals on containers: YES Q and Intact	YES NO NA
Were these signed and dated correctly?	YESNO(NA)
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper	Other None
9. Cooling process: (Ice Ice-pack Ice (direct contact) Dry ice	Other None
10. Did all containers arrive in good condition (unbroken)?	(ESNONA
11. Were all container labels complete (#, date, signed, pres., etc)?	YESNONA
12. Did all container labels and tags agree with custody papers?	YESNONA
13a. Were VOA vials received?	YESNONA
b. Was there any observable headspace present in any VOA vial?	YESNO(NA)
14. Was there a Trip Blank in this cooler? YESNONA If multiple coolers, sequence	ce #
I certify that I unloaded the cooler and answered questions 7-14 (intial)	<u>@</u>
15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?	YESNO(NA)
b. Did the bottle labels indicate that the correct preservatives were used	(ES)NONA
16. Was residual chlorine present?	YESNO(NA)
I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)	<u>_</u> @
17. Were custody papers properly filled out (ink, signed, etc)?	ÆS)NONA
18. Did you sign the custody papers in the appropriate place?	(ES)NONA

20. Was sufficient amount of sample sent in each container? I certify that I entered this project into LIMS and answered questions 17-20 (intial)

19. Were correct containers used for the analysis requested?

(w) (W) I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? YES. (NO) Was a NCM generated? YES. (NO) .#_

(ES).NO...NA

YES .. NO...NA

THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN 37204

Consultant Telephone Number: 617-381-2802
Sampler Name: (Print) Visoth Sreng

[estAmerica

onthly 1st Rain			Sampler Signature:	Sampler Name: (Print) Visoth Sreng	2		Consultant Project Mgr: Triumvirate - Sandra Perry (Call Visoth at (617) 799 - 4357 for sample related questions)	ExxonMobil Project Mgr: Emest Hayes	City/State/Zip: Everett, MA 02149	Address: 52 Beacham Street	Consultant Name: ExxonMobil Everett Terminal	IN ENVIRONMENTAL TESTING Nashville, TN 37204	2960 Foster Creighton	Nashville Division
.abel) ellow Label) low Label))	Perservative		T TANK IN		Fax No.: 617-381-2954		4357 for sample related questions)					Fax: 615-726-3404	Toll Free: 800-765-0980	Phone: 615-726-0177
	Matrix		Regulato											
) EPA 1664	Monthly		Regulatory District (CA)	City, State, Zip	Site Address SAME	Facility ID #	PROJECT #: NPDES Pen	P0#	Report To:	Invoice To: (ExxonMobi	TA Account #:			
e - OIA 1677	Quarterly	Analyze For:			SAME		NPDES Permit MA0000833		Report To: sperry@triumvirate.com; emest_e.haynes@exxonmobil.cor	(ExxonMobil PM unless otherwise indicated)		1		
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Dropped income DAA	i veni iquiai ieu <i>vy</i> .	Beling liched by		Relinguished by:	standard protocol,	Comments/Special Instructions: Laboratory case narative to NELAC Institute						Outfall 01 A	Outfall 01 A-TSS - 3	Outfall 01 A-TSS - 2	Outfall 01 A-TSS - 1	Sample ID or Field ID	June 2013 Monthly 1st Rain				
	Date	\	6/3/13	/ Date	Company organic organic of the Common property of the Common propert	PLEASE-SEE-ATTACHED WIL REQUIREMENTS-						X	- Carrie area	**************************************	6/3/13 0/25	Date	Sampled				
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Date: 27Aug12 Wgt: 10.00 LBS		ė	C . 4 - 1 3								_		×	×	×	×	Wastewa	ater	_		
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SHIPPING: SPECIAL: HANDLING:	Œ				l						-	×		<u> </u>		Oil & Gre	ase - EPA 1664	Monthly			
INC:	consultant to notify the TestAmenca Project Manage by phone or fax that a rush sample will be submitted. TA Project Manager. Date:	ed Illw 11 *	Level 2		- m	Laboratory Comments: Temperature Upo										Àvallable	Cyanide - OIA 1677				
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0.00	nytne i hata ru jer:	* It will be the responsibility of ExxonMobil or its	Dicese .	QC Deliverables (please circle one)	Contain	nments ature Up								<u> </u>		PAH's - E	PA 610	terly	ş		
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SVGS: PRIORITY OVERNIGHT TRCK: 4808 3157 1348

0.00

SHIPPING: SPECIAL: HANDLING: O.OO TOTAL:

0.00

Prepared vsreng 01A

Prepared vsreng 01A

6/14/2013

Loc: 490 **27925**

Login Sample Receipt Checklist

Client: Exxon Global Remed. Grp Job Number: 490-27925-1

Login Number: 27925 List Source: TestAmerica Nashville

List Number: 1 Creator: McBride, Mike

oreator. McDride, mike	
Question	Answer Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td>	True
The cooler's custody seal, if present, is intact.	True
Sample custody seals, if present, are intact.	N/A
The cooler or samples do not appear to have been compromised or tampered with.	True
Samples were received on ice.	True
Cooler Temperature is acceptable.	True
Cooler Temperature is recorded.	True
COC is present.	True
COC is filled out in ink and legible.	True
COC is filled out with all pertinent information.	True
Is the Field Sampler's name present on COC?	True
There are no discrepancies between the containers received and the COC.	True
Samples are received within Holding Time.	True
Sample containers have legible labels.	True
Containers are not broken or leaking.	True
Sample collection date/times are provided.	True
Appropriate sample containers are used.	True
Sample bottles are completely filled.	True
Sample Preservation Verified.	N/A
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True
Multiphasic samples are not present.	True
Samples do not require splitting or compositing.	True
Residual Chlorine Checked.	N/A

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